LECTURER

DEPARTMENT/UNIT  Monash Biomedicine Discovery Institute (BDI)

FACULTY/DIVISION  Faculty of Medicine, Nursing and Health Sciences

CLASSIFICATION  Level B

WORK LOCATION  Clayton campus

ORGANISATIONAL CONTEXT

Everyone needs a platform to launch a satisfying career. At Monash, we give you the space and support to take your career in all kinds of exciting new directions. You’ll have access to quality research, infrastructure and learning facilities, opportunities to collaborate internationally, as well as the grants you’ll need to publish your work. We’re a university full of energetic and enthusiastic minds, driven to challenge what’s expected, expand what we know, and learn from other inspiring, empowering thinkers. Discover more at www.monash.edu.

The Faculty of Medicine, Nursing and Health Sciences, is the largest faculty at Monash University, and offers the most comprehensive suite of professional health training in Victoria. We consistently rank in the top 40 universities worldwide for clinical, pre-clinical and health sciences.

We want to improve the human condition. That is our vision - it has no expiration date. Through academic health centres, other translational models and by educating the healthcare workforce of the future, our staff, students and alumni directly improve quality of life.

Setting the global health care agenda, the Faculty aspires to lead in all areas of research activity and influence local, national and international policy to improve health and social outcomes and health inequalities. We’ve made a major impact in the world of medical research and become globally recognised for our quality education of over 41,000 doctors, nurses, and allied health professionals.

We are ambitious and aim to maintain our position as a leading international medical research university. We’re recognised for the breadth and depth of our research, for our commitment to translational research, for the quality and scale of our research capability, and as a thriving biotechnology hub. To learn more about the faculty, please visit monash.edu/medicine.

The Monash Biomedicine Discovery Institute (BDI) is one of the largest and most dynamic biomedical research and teaching environments in Australia. The Institute and its cognate Departments of Anatomy and Developmental Biology, Biochemistry and Molecular Biology, Microbiology, Pharmacology and Physiology comprise over 120 research groups and deliver discipline-focused teaching into our flagship Bachelor of Biomedical Science Degree, the Bachelor of Science Degree, as well as the Medical School and various Health-related Degree Programs. We pride ourselves on an excellent and evolving teaching curriculum and provide world-class teaching and learning space for Biomedical Sciences.
The BDI comprises six inter-disciplinary health-focused research Programs, each led by a renowned leader in the field. The BDI programs include Infection and Immunity, Cancer, Cardiovascular Disease, Development and Stem Cells, Metabolism, Diabetes and Obesity and Neuroscience. The BDI works closely with clinical and drug development precincts at Monash and has a number of major industry partnerships to facilitate the translation of our research.

For more information about the BDI please visit our website at www.monash.edu.au/discovery-institute.

POSITION PURPOSE

A Level B academic is expected to make contributions to the teaching effort of the university and to carry out activities to maintain and develop her/his scholarly, research and/or professional activities relevant to the profession or discipline.

This position is to teach into bioinformatics and computational biology studies offered by the Monash BDI primarily, but not solely, in postgraduate units. Data science is becoming increasingly important in science, biology, medicine and bioengineering and modern biomedicine is increasingly quantitative and generating very large volumes of data. With advancement in the high-throughput data generation technologies, life science researchers now commonly deal with large volumes of heterogeneous data in various digital formats. The BDI aims to create a trained stream of students specialised in Bioinformatics and Computational Biology, to enter PhD study or industry workforce, to advance the research and education aims of the Monash BDI and Monash University.

You will develop and deliver educational material in bioinformatics and computational biology primarily at Masters level. Strong team working skills will be necessary to draw on expertise from across the sector to engage in the units that will enhance educational offerings to domestic and international students. Working in close collaboration with the Faculty of Medicine, Nursing and Health Sciences and the Faculty of IT, you’ll take responsibility for the overall management and delivery of the units, ensuring high standards of teaching in bioinformatics and computational biology, using established and modern approaches, adherence to quality assurance standards, and an excellent student experience.

The successful applicant is expected to undertake research in computational biology. You will be committed to research that will compliment and support our research strategy and prepared to work as part of multi-disciplinary teams, as well as developing your personal research activities. You will also be expected to promote and enhance inter-faculty collaboration for teaching and research in computational biology across the BDI and the Monash Faculty of IT, with whom the initial Masters level units will be delivered.

**Reporting Line:** The position reports to the Director of Masters Programs, BDI

**Supervisory Responsibilities:** Not applicable

**Financial Delegation:** Not applicable

**Budgetary Responsibilities:** Not applicable

KEY RESPONSIBILITIES

Specific duties required of a Level B academic may include:

1. **The conduct of tutorials, practical classes, demonstrations, workshops, student field excursions, clinical sessions and/or studio sessions**
2. **Initiation and development of subject material**
3. **Acting as subject coordinators; the preparation and delivery of lectures and seminars**
4. **Supervision of the program of study of honours students or of postgraduate students engaged in course work**
5. **Supervision of major honours or postgraduate research projects**
6. **The conduct of research**
7. Involvement in professional activity
8. Development of course material with appropriate advice from and support of more senior staff
9. Marking and assessment
10. Consultation with students
11. A range of administrative functions the majority of which are connected with the subjects in which the academic teaches
12. Attendance at departmental, school and/or faculty meetings and/or membership of a number of committees

KEY SELECTION CRITERIA

Education/Qualifications
1. The appointee will have:
   • A doctoral or masters qualification in the relevant discipline area or equivalent accreditation and standing

Knowledge and Skills
2. Possess a high level of interpersonal skills and demonstrated ability to work independently and as part of a team across both the education and service sectors
3. Demonstrated bioinformatics and/or computational biology ability and manuscript preparation skills; including developing a solid track record of refereed research publications
4. Ability to work positively and cooperatively with students, internal and external teams and external organisations
5. Demonstrated strong record of teaching experience in a tertiary environment, especially in laboratory class environments, and to lead in such contexts
6. Demonstrated ability to develop and design laboratory classes in the biomedical sciences, to train student in data collection, analyses and their communication
7. Demonstrated ability to motivate, actively engage and educate a given audience
8. Demonstrated experience in curriculum and subject material development
9. Proven ability, commitment and passion for engaging in scholarly and research activities
10. A demonstrated capacity to work in a collegiate manner with other staff in the workplace
11. Demonstrated record of teaching or capacity to teach in the field of bioinformatics in a tertiary environment

OTHER JOB RELATED INFORMATION

• Travel to other campuses of the University may be required
• There may be a requirement to work additional hours from time to time
• There may be peak periods of work during which taking of leave may be restricted

GOVERNANCE

Monash University expects staff to appropriately balance risk and reward in a manner that is sustainable to its long-term future, contribute to a culture of honesty and integrity, and provide an environment that is safe, secure and inclusive. Ensure you are aware of and adhere to University policies relevant to the duties undertaken and the values of the University. This is a standard which the University sees as the benchmark for all of its activities in Australia and internationally.